

## PATENT APPLICATION

Applicants: Mizuho SHIMOYAMA et al

Title: THERMALLY SENSITIVE RECORDING MEDIUM

PCT International Application No.: PCT/JP2004/010529

PCT International Filing Date: July 16, 2004

U.S. Application No.

(if known, see 37 CFR 1.5): 10/564 808

Confirmation No.: 3406

Atty. Docket No.: 4364.P0016US

Mail Stop PCT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

**FIRST CLASS MAILING CERTIFICATE**

Sir:

I hereby certify that this correspondence is being deposited with the United States Postal Service under 37 CFR 1.8 as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on June 21, 2006.

  
Terryence F. Chapman

TFC/smd

FLYNN, THIEL, BOUTELL	Dale H. Thiel	Reg. No. 24 323
& TANIS, P.C.	David G. Boutell	Reg. No. 25 072
2026 Rambling Road	Terryence F. Chapman	Reg. No. 32 549
Kalamazoo, MI 49008-1631	Mark L. Maki	Reg. No. 36 589
Phone: (269) 381-1156	Liane L. Churney	Reg. No. 40 694
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	Steven R. Thiel	Reg. No. 53 685
	Donald J. Wallace	Reg. No. 43 977
	Sidney B. Williams, Jr.	Reg. No. 24 949

Correspondence: Form PTO-1390 Transmittal  
dated June 21, 2006  
including enclosures listed thereon

390.05/05

U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE

EXPRESS MAIL LABEL NO.: None

June 21, 2006

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER: 4364.P0016US

U.S. APPLICATION NO. (If known, see 37 CFR 1.5): 10/564 808 ✓

CONFIRMATION NO.: 3406

INTERNATIONAL APPLICATION NO.: PCT/JP2004/010529

INTERNATIONAL FILING DATE: July 16, 2004

PRIORITY DATE CLAIMED: July 18, 2003

TITLE OF INVENTION: THERMALLY SENSITIVE RECORDING MEDIUM

APPLICANTS FOR DO/EO/US: (1) Mizuho SHIMOYAMA, (2) Kaoru HAMADA,  
(3) Seiki YONESHIGE and (4) Kenji HIRAI

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☐ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☒ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☐ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

**Items 11 to 20 below concern document(s) or information included:**

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13~~ter~~.2 and 37 CFR 1.821-1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information:  
Response to Notification of Missing Requirements  
Copy of Notification of Missing Requirements dated April 27, 2006  
Postal Card

The following fees have been submitted:	Calculations	PTO USE ONLY
21. <input type="checkbox"/> Basic National Fee (37 CFR 1.492(a)) .....\$300.00	\$	
22. <input type="checkbox"/> Examination Fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) .....\$0.00 All other situations .....\$200.00	\$	
23. <input type="checkbox"/> Search Fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) .....\$0.00 Search fee (37 CFR 1.445(a)(2) has been paid on the international application to the USPTO as an International Searching Authority .....\$100.00 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB .....\$400.00 All other situations .....\$500.00	\$	
<b>TOTAL OF 21, 22 AND 23 =</b>	\$	

U.S. APPLICATION NO. (if known, see 37 CFR 1.5): 10/564 808  
INTERNATIONAL APPLICATION NO.: PCT/JP2004/010529  
ATTORNEY'S DOCKET NUMBER: 4364.P0016US

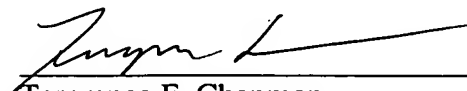
[ ] Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
- 100 =	/50 =		x \$250	\$	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	8 - 20 =	0	x \$ 50.00	\$	
Ind. claims	2 - 3 =	0	x \$200.00	\$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360.00				\$	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$	
[ ] Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. <b>SUBTOTAL =</b>				\$	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				+	\$
<b>TOTAL NATIONAL FEE =</b>				\$	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+	\$
<b>TOTAL FEES ENCLOSED =</b>				\$	
				Amount to be refunded:	\$
				Amount to be charged:	\$

- a. [ ] A check in the amount of \$\_\_\_\_\_ to cover the above fees is enclosed.  
b. [ ] Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$\_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed.  
c. [X] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-1382. A duplicate copy of this sheet is enclosed.  
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

IN DUPLICATE

**PLEASE DIRECT CORRESPONDENCE TO  
THE ADDRESS ASSOCIATED WITH THE  
FOLLOWING CUSTOMER NUMBER: 23474**

300.07/05

  
Terryence F. Chapman  
Registration Number: 32 549  
TFC/smd

FLYNN, THIEL, BOUTELL & TANIS, P.C.  
2026 Rambling Road  
Kalamazoo, Michigan 49008-1631

PATENT APPLICATION  
IN THE U.S. PATENT AND TRADEMARK OFFICE  
June 21, 2006

Applicants: Mizuho SHIMOYAMA et al  
For: THERMALLY SENSITIVE RECORDING MEDIUM  
Serial No.: 10/564 808                      Group: Unknown  
Confirmation No.: 3406  
Filed: January 13, 2006                      Examiner: Unknown  
International Application No.: PCT/JP2004/010529  
International Filing Date: July 16, 2004  
Atty. Docket No.: 4364.P0016US

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS**

Sir:

On the Notification of Missing Requirements dated April 27, 2006, the inquiry was made as to the difference in spelling between the first inventor's last name on the Declaration and on the international application. That is, the first inventor's last name is spelled "Shimoyama" in the U.S. application and "Simoyama" in the international application. The reason for this difference is that the Japanese pronunciation of "Shi" and "Si" are the same and both spellings are commonly used to pronounce the first part of the first inventor's last name. "Shi" is the most common spelling and is used in the U.S. application. However, "Shimoyama" in the U.S. application and "Simoyama" in the international application are the same person, with both spellings of the last name being correct according to Japanese pronunciation.

If you have any additional questions, please do not hesitate in contacting me.

The Commissioner is hereby authorized to charge any additional fee which may be required by this paper, or to

credit any overpayment, to Deposit Account No. 06-1382. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

IN DUPLICATE



---

Terryence F. Chapman

TFC/smd

FLYNN, THIEL, BOUTELL	Dale H. Thiel	Reg. No. 24 323
& TANIS, P.C.	David G. Boutell	Reg. No. 25 072
2026 Rambling Road	Terryence F. Chapman	Reg. No. 32 549
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	Steven R. Thiel	Reg. No. 53 685
	Donald J. Wallace	Reg. No. 43 977
	Sidney B. Williams, Jr.	Reg. No. 24 949

Encl: Copy of Notification of Missing Requirements  
Postal Card

110.0703



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/564,808	Mizuho Shimoyama	4364.P0016US

INTERNATIONAL APPLICATION NO.
PCT/JP04/10529

23474  
FLYNN THIEL BOUTELL & TANIS, P.C.  
2026 RAMBLING ROAD  
KALAMAZOO, MI 49008-1631

DHT / DGB RJT  
TVC MLM LLC  
BRT SRT SBW

I.A. FILING DATE	PRIORITY DATE
07/16/2004	07/18/2003

MAY 01 2006

DJW KLP PMG  
GMS CMC TLH  
FILE

Date Mailed: 04/27/2006

CONFIRMATION NO. 3406

371 FORMALITIES LETTER

\*OC000000018623898\*

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 01/13/2006
- English-Translation of the IA filed on 01/13/2006
- Copy of the International Search Report filed on 01/13/2006
- Preliminary Amendments filed on 01/13/2006
- Oath or Declaration filed on 01/13/2006
- U.S. Basic National Fees filed on 01/13/2006
- Priority Documents filed on 01/13/2006

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date. The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) in that it:
  - The first inventor's last name is spelled differently on the declaration than on the international application. Please clarify.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

#### SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity

FILE NO: HTNAK 16 ATTY: TFC  
DUE DATE: 06-27-2006 ( 20060627 )  
4364.P0016US /INIT:( 20060427 )  
ACTION: 10 RES PER: 2 M DK1  
FILE FEE DEC SET AL / 5602

- \$130 Surcharge.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

JOHN L ANDERSON

Telephone: (703) 308-9140 EXT 211

**PART 1 - ATTORNEY/APPLICANT COPY**

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/564,808	PCT/JP04/10529	4364.P0016US